10586819

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

## (19) World Intellectual Property Organization International Bureau



## 1 DOBA BUBURUK BILAN KARA BUKA BUKA BUKA BUKA BUKA BUKA BUKA BUBURA BUKA KUN KABUKA BUKA BUKA BUBURA BUTA BUKA

(43) International Publication Date 18 August 2005 (18.08.2005)

PCT

(10) International Publication Number WO 2005/075278 A1

(51) International Patent Classification<sup>7</sup>: B62K 5/06

B62D 9/02,

(21) International Application Number:

PCT/AU2005/000110

(22) International Filing Date: 2 February 2005 (02.02.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 2004900556

2004905617

6 February 2004 (06.02.2004) AU 30 September 2004 (30.09.2004) AU

(71) Applicant and

(72) Inventor: JAMES, Phillip, Ronald [AU/AU]; 3/26 Railway Terrace, Cummins, S.A. 5681 (AU).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

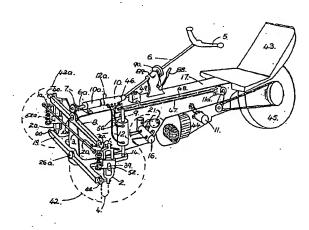
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GII, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: TILTING VEHICLE



(57) Abstract: A tilting vehicle comprising at least one section (17) tiltable about the longitudinal axis of the vehicle, tilt registration means (20) recording variations in the tilt position of the tiltable section (17), a control element (5), tilt control means (12) connecting the control element (5) to the tilt section (17), at least three wheels (42, 42a, 45) including wheels (42, 42a) laterally spaced, a castoring element including at least one front wheel (42, 42a) able to tilt with the tiltable section (17) and dynamically directionally controllable due to the tilt and speed of the vehicle, a speed sensitive control signal transmitter (21), a variable force steer transmitter (16) connected to the castoring element, the tilt registration means (20) and to the speed sensitive control signal transmitter (21), the variable force steer transmitter (16) being able to exert a directing moment and/or positioning moment on the castoring element, that directs and/or positions the castoring element according to the tilt registration means (20) and the force exerted by the variable force steer transmitter (16), which is varied by control signals from the speed sensitive control signal transmitter (21).

3006/076370 A1